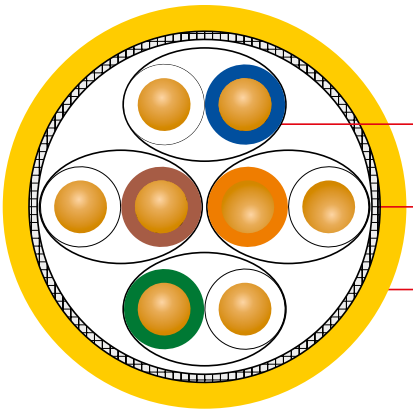
# XLAN 1200 Dca
# S/FTP 4PR AWG 22/1

**Category 7A · 1200 MHz**

| Dimension | Sheath thickness approx. mm | Diameter approx. mm | Cable weight approx. kg/km | Copper index kg/km | Calorific potential MJ/km |
|---|---|---|---|---|---|
| 4 x 2 x AWG22 | – | 7.9 | 71 | 38 | 612 |




## APPLICATION

Data cable for primary, secondary and horizontal cabling up to 1200 MHz. Category 7A; applications up to Class FA (1000 MHz).
FRNC sheath; CPR Dca-s1 d2 a1.
Ethernet 10/100/1000/10GBase-T; PoE to IEEE 802.3at.

## STANDARDS

EN 50288-4-1; EN 50173; EN 50174-2; ISO/IEC 11801; IEC 61156-5
EN 60332-1-2; EN 60332-3-24; EN 50399; EN 50575; EN 13501-6
EN 61034; EN 50267; IEC 60754-2; IEC 61034; RoHS 2015/863/EU

## CONSTRUCTION

**Conductor:** copper, solid, bare, AWG 22/1
**Core insulation:** SFS-PE
**Core identification:** wh-bu, wh-or, wh-gn, wh-bn
**Core stranding:** cores twisted into pairs
**Shielded pairs:** plastic-laminated aluminium foil around each pair

**Screen:** tinned copper wire braid
**Sheath:** halogen-free compound (FRNC);
colour: yellow RAL 1021

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| (Conductor) loop resistance max. | 120 Ω/km |
| Insulation resistance min. (20 °C) | 5 GΩ x km |
| Characteristic impedance | 100 ±5 Ω |
| Rated voltage | 125 V |
| Propagation delay | max. 425 ns/100 m |
| Transfer impedance max. (10 MHz) | < 5 mΩ/m |
| Mutual capacitance nom. | 45 nF/km |
| Relative propagation velocity approx. | 0.79 c |
| Coupling attenuation | > 85 dB (Type 1) |
| Test voltage | 700 V-AC |

## Transmission characteristics

The stated performance data are typical measured values.

| f MHz | Attenuation nom. dB/100m | NEXT nom. dB | ACR nom. dB/100m | EL-FEXT nom. dB/100m | RL nom. dB |
|---|---|---|---|---|---|
| 1 | 1.7 | 110 | 108 | 105 | 25 |
| 4 | 3.2 | 110 | 107 | 103 | 28 |
| 10 | 5.1 | 110 | 105 | 100 | 30 |
| 16 | 6.4 | 110 | 104 | 98 | 30 |
| 20 | 7.1 | 110 | 103 | 95 | 30 |
| 31.25 | 9 | 110 | 101 | 93 | 30 |
| 62.5 | 13.1 | 108 | 95 | 90 | 30 |
| 100 | 16.5 | 105 | 88 | 85 | 30 |
| 155 | 21.6 | 103 | 81 | 82 | 29 |
| 200 | 23.5 | 100 | 76 | 78 | 28 |
| 300 | 29.1 | 99 | 70 | 70 | 27 |
| 500 | 37 | 96 | 59 | 63 | 26 |
| 600 | 41.5 | 92 | 50 | 60 | 25 |
| 900 | 51.5 | 88 | 36 | 55 | 23 |
| 1000 | 54.9 | 85 | 30 | 52 | 22 |
| 1200 | 58.8 | 85 | 26 | 42 | 21 |

## THERMAL & MECHANICAL PROPERTIES

| | |
|---|---|
| Temperature range during installation | 0° C to +50 °C |
| Temperature range stationary | -20 °C to +60 °C |
| Min. bending radius, flexible | 8 x diameter |
| Min. bending radius, fixed | 4 x diameter |
| Maximum traction | 120 N |

Subject to changes due to technical progress and error

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